WE CLAIM:

1. A multifunctional shock-resisting structure comprising

   (a) an external frame being an open or closed socket body of different shapes;

   (b) an actuating rod , and the material for the external frame, the braking layer and the actuating rod being different in softness or hardness; and

   (c) a braking layer being positioned between the external frame and the actuating rod, wherein after the actuating rod is inserted into the external frame the braking layer is filled into the space between the actuating rod and the external frame such that eh inner edge of the external frame and the actuating rod is interconnected by the braking layer.

2. The multifunctional shock-resisting structure of claim 1, wherein the material for making the external frame, the actuating rod and the braking layer is metallic or non-metallic materials of different hardness.

3. The multifunctional shock-resisting structure of claim 1, wherein the surface of the inner edge of the external frame, the actuating rod is a smooth, rough or threaded or zigzag threaded surface facilitating the

binding of the braking layer and the contact surfaces between different materials.

4. The multifunctional shock-resisting structure of claim 1, wherein the shapes of the external frame, the inner edge of the external frame, the actuating rod and the connection portion are optional shapes and the number of holes on the external frame and the actuating rod are optional numbers and shapes.